

Title (en)  
VIBRATION APPARATUS AND APPARATUS INCLUDING THE SAME

Title (de)  
VIBRATIONSVORRICHTUNG UND VORRICHTUNG DAMIT

Title (fr)  
APPAREIL DE VIBRATION ET APPAREIL LE COMPRENANT

Publication  
**EP 4114038 A2 20230104 (EN)**

Application  
**EP 22180900 A 20220624**

Priority  
KR 20210086155 A 20210630

Abstract (en)  
A vibration apparatus comprises a vibration plate, a vibration generator at the vibration plate and including a vibration structure, and a connection member between the vibration plate and the vibration generator. The connection member includes a first connection member between the vibration plate and the vibration structure and overlapping the vibration structure and a second connection member surrounding the first connection member. A modulus of the first connection member is greater than a modulus of the second connection member.

IPC 8 full level  
**H01L 41/04** (2006.01); **H01L 41/047** (2006.01); **H04R 1/28** (2006.01); **H04R 17/00** (2006.01)

CPC (source: CN EP KR US)  
**B06B 1/0688** (2013.01 - EP); **H04R 1/24** (2013.01 - US); **H04R 3/00** (2013.01 - CN US); **H04R 7/045** (2013.01 - KR); **H04R 17/00** (2013.01 - CN EP KR US); **H04R 31/006** (2013.01 - US); **H10N 30/80** (2023.02 - EP); **H10N 30/87** (2023.02 - EP); **H04R 1/028** (2013.01 - US); **H04R 1/288** (2013.01 - EP); **H04R 2307/00** (2013.01 - KR); **H04R 2499/13** (2013.01 - EP); **H04R 2499/15** (2013.01 - EP KR US)

Citation (applicant)  
KR 20210086155 A 20210708 - LG DISPLAY CO LTD [KR], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4114038 A2 20230104**; **EP 4114038 A3 20230419**; CN 115550823 A 20221230; JP 2023007469 A 20230118; KR 20230004192 A 20230106; TW 202304022 A 20230116; US 2023019257 A1 20230119

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**EP 22180900 A 20220624**; CN 202210736271 A 20220627; JP 2022101491 A 20220624; KR 20210086155 A 20210630; TW 111123735 A 20220624; US 202217851822 A 20220628